

**IN THE CLAIMS**

Claims 1-29 (canceled)

30. (previously presented) A pharmaceutical composition consisting essentially of the alpha globin chain of hemoglobin in a pharmaceutically acceptable carrier, wherein the composition is suitable for subcutaneous administration and said alpha globin chain is present in an amount of 0.1 mg to 6 g.

31. (previously presented) A pharmaceutical composition consisting essentially of the beta globin chain of hemoglobin in a pharmaceutically acceptable carrier, wherein the composition is suitable for subcutaneous administration and said beta globin chain is present in an amount of 0.1 mg to 6 g.

32. (previously presented) A pharmaceutical composition consisting of the alpha globin chain of hemoglobin and the beta globin chain of hemoglobin in a pharmaceutically acceptable carrier, wherein the composition is suitable for subcutaneous administration and said beta globin chain and said alpha globin chain are each present in an amount of 0.1 mg to 6 g.